

SECTION 08 1400

WOOD DOORS

LANL MASTER SPECIFICATION

When editing to suit project, author shall add job-specific requirements and delete only those portions that in no way apply to the activity (e.g., a component that does not apply). To seek a variance from applicable requirements, contact the ESM Architectural POC.

When assembling a specification package, include applicable specifications from all Divisions, especially Division 1, General Requirements.

Delete information within "stars" during editing.

Specification developed for ML-3 projects. For ML-1 / ML-2, additional requirements and QA reviews are required.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Flush wood doors; [fire rated and non-rated]

1.2 SUBMITTALS

- A. Submit the following in accordance with the requirements of Section 01 3300, Submittal Procedures:
 - 1. Catalog data for each type of wood door, including details of core and edge construction, trim for openings, and finishing specifications for doors to receive factory finish.
 - 2. LEED Submittals (if claiming credits):
 - a. Certificates for Credit MR7: Chain-of-custody certificates certifying that wood doors comply with forest certification requirements.
 - b. Product data for Credit EQ4.4: For adhesives and composite wood products, indicating that product contains no urea formaldehyde.
 - 3. Color and finish samples of factory finished doors for approval.
 - 4. Shop drawings indicating location, size, and hand of each door, elevation of each kind of door, details of construction, location and extent of hardware blocking, fire ratings, requirements for factory finishing and other pertinent data.
 - 5. Warranty as specified.

1.3 QUALITY ASSURANCE

- A. Quality Standards: Provide wood flush doors complying with the following standards:
 - 1. ANSI/NWMA I.S.1: "Industry Standard for Wood Flush Doors", published by National Woodwork Manufacturers Association (NWMA).
 - 2. AWI Quality Standards: Section 1300 "Architectural Flush Doors" of "Architectural Woodwork Quality Standards" published by Architectural Woodwork Institute (AWI). Designations for grade and door construction under types of doors refers to this standard.
- B. Fire-Rated Wood Doors: Provide wood doors which are identical in materials and construction to units tested in door and frame assemblies per ASTM E 152 and which are labeled and listed for ratings indicated by UL, Warnock Hersey or other testing and inspection agency acceptable to Architect.
- C. Manufacturer: Obtain doors from a single manufacturer to ensure uniformity in quality of appearance and construction, unless otherwise indicated.

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Protect wood doors during transit, storage and handling to prevent damage, staining, soiling and deterioration. Comply with requirements of ANSI/NWMA I.S.1. standard and recommendations of NWMA pamphlet "How to Store, Handle, Finish, Install, and Maintain Wood Doors", as well as with manufacturer's instructions. Package doors at factory prior to shipping using manufacturer's standard method.
- B. Identify each door with individual opening numbers which correlate with designation system used on shop drawings for door, frames, and hardware, using temporary, removable or concealed markings.

1.5 SPECIFIC PRODUCT WARRANTY

- A. Door Manufacturer's Warranty: Submit written agreement on door manufacturer's standard form signed by Manufacturer, Installer and Contractor, agreeing to repair or replace defective doors which have warped (bow, cup or twist) or which show telegraphing of core construction in face veneers, or do not conform to tolerance limitations of NWMA and AWI.
 - 1. Also include in the warranty reinstallation which may be required due to repair or replacement of defective doors where defect was not apparent prior to hanging.
- B. Warranty becomes effective during the following period of time after date of final acceptance.
 - 1. Ten years for solid core flush interior doors.

C. Replace doors where Contractor's work contributed to rejection or to voiding of manufacturer's warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Cal-Wood Door Div., Timberland, Industries, Inc.
- B. Eggers Industries, Architectural Door Division.
- C. Glen-Mar Door Mfg. Co.
- D. Weyerhaeuser Company.

2.2 INTERIOR FLUSH WOOD DOORS

- A. Solid Core Doors with Wood Veneer Faces: Comply with the following requirements:
 - 1. Faces: 1/8 inch 3 ply panel, [plain sliced, premium red oak veneer].
 - 2. Finish: AWI System 4.
 - 3. Core Construction: PC-HPDL (Particleboard core).
- B. Fire-Rated Solid Core Doors: Comply with the following requirements.
 - 1. Faces and AWI Grade: Provide faces and grades to match non-rated doors in same area of building.
 - 2. Construction: Manufacturer's standard core construction as required to provide fire-resistance indicated.
 - 3. Edge Construction: Provide manufacturer's standard edge construction for improved screw-holding capability and split resistance. Don't use edges composed of a single layer of treated lumber.

2.3 LIGHT FRAMES

- A. Frames for Light Openings in Fire Doors: Manufacturer's standard frame formed of 18 gauge cold-rolled steel, factory-primed, and approved for use in door of fire-rating indicated.

2.4 GENERAL FABRICATION REQUIREMENTS

- A. Openings: Cut and trim openings through doors and panels as shown. Comply with applicable requirements of referenced standards for kind(s) of doors required.

1. Light Openings: Factory cut openings. Trim openings for non-fire-rated doors with solid wood moldings.

2.5 REFITTING AND PREPARATION FOR HARDWARE

- A. Comply with tolerance requirements of AWI for prefitting. Machine doors for hardware requiring cutting of doors. Comply with final hardware schedules and door frame shop drawings and with hardware templates and other essential information required to ensure proper fit of doors and hardware.
 1. Take accurate field measurements of hardware mortises in metal frames to verify dimensions and alignment before proceeding with machining in factory.

PART 3 EXECUTION

3.1 INSPECTION

- A. Examine door frames, after their installation, and doors, prior to their hanging, as follows:
 1. Verify that frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with plumb jambs and level heads.
 2. Verify that doors are free of defects that could cause their rejection.

3.2 INSTALLATION

- A. Condition doors to average prevailing humidity in installation area prior to hanging.
- B. Manufacturer's Instructions: Install wood doors to comply with manufacturer's instructions and of referenced AWI standard and as indicated.
 1. Install fire-rated doors in corresponding fire-rated frames in accordance with requirements of NFPA 80.
- C. Job Fit Doors: Align and fit doors in frames with uniform clearances and bevels as indicated below. Machine doors for hardware. Seal cut surfaces after fitting and machining.
 1. Fitting Clearances: For non-rated doors provide clearances of 1/8in. at jambs and heads; 1/16in. per leaf at meeting stiles for pairs of doors; and 1/8in. from bottom of door to top of decorative floor finish or covering.
 - a. For fire-rated doors, provide clearances complying with NFPA 80.
 2. Bevel non-rated doors 1/8in. in 2in. at lock edges.

- 3. Bevel fire-rated doors 1/8in. in 2in. at lock edges.
- D. Prefit Doors: Fit to frames and machine for hardware to whatever extent not previously worked at factory as required for fit and uniform clearance at each edge.

3.3 ADJUST AND CLEAN

- A. Operation: Rehang or replace doors which do not swing or operate freely, as directed by Architect.
- B. Finished Doors: Refinish or replace doors damaged during installation, as directed by Architect.
- C. Institute protective measures as recommended and accepted by door manufacturer to assure that wood doors will be without damage or deterioration at time of final acceptance.

END OF SECTION

Do not delete the following reference information:

FOR LANL USE ONLY

This project specification is based on LANL Master Specification 08 1400 Rev. 1, dated August 7, 2006.